

FORM PTO-1449
(Rev. 7-80)U.S. Department of Commerce
Patent and Trademark OfficeAttorney Docket No.
TESSERA 3.3-018 CONT
CONT 2 DIVSerial No.
03/484,615
UNASSIGNED

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

Applicant
Khandros et alFiling Date
Herewith

Group

U.S. PATENT DOCUMENTS

*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SVC	AA	T955,008	2/77	Gregor, et al.			
SVC	AB	3,823,467	7/74	Shamash, et al.			
SVC	AC	3,825,353	7/74	Loro			
SVC	AD	3,952,404	4/76	Matunami			
SVC	AE	4,189,825	2/26/80	Robillard, et al.			
SVC	AF	4,349,862	9/82	Bajorek, et al.			
SVC	AG	4,536,469	8/85	Alderstein			
SVC	AH	4,648,179	3/87	Bhattacharyya, et al.			
SVC	AI	4,655,524	4/87	Etzel			
SVC	AJ	4,658,332	4/1987	Baker, et al.			
	AK	4,681,654	7/87	Clementi, et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER		DATE		COUNTRY		TRANSLATION
							YES	NO
SVC	AL	080041		9/22/82		Europat		
SVC	AM	072673		8/12/82		Europat (A2)		
SVC	AN	072673		8/12/82		Europat (A3)		
SVC	AO	413451		7/25/90		Europat		
SVC	AP	2,495,839		12/7/81		France		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SVC	AR	IBM Technical Disclosure Bulletin entitled "Non-Permanent Mounting Technique for Test and Burn-In of C4 Devices", November 1990, Vol. 33, No. 7
SVC	AS	IBM Technical Disclosure Bulletin, entitled "Extended Pad For Testing Package Parts", December 1984, Vol. 27, No. 7B.
SVC	AT	IBM Technical Disclosure Bulletin entitled "Test and Repair of Direct Ship Attach Modules, August 1988, Vol. 31, No. 3.

EXAMINER	S. C. Carl	DATE CONSIDERED
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SVC	AA	4,695,870	9/87	Patraw	—	—	
SVC	AB	4,700,473	10/87	Freyman, et al.	—	—	
SVC	AC	4,766,670	8/88	Godzik, et al.	—	—	
SVC	AD	4,772,936	9/20/88	Reding, et al.	—	—	
SC	AE	4,783,695	11/88	Eichelberger, et al.	—	—	
SC	AF	4,847,146	7/89	Yeh, et al.	—	—	
SC	AG	4,855,872	8/89	Wojner, et al.	—	—	
SVC	AH	4,860,088	8/89	Smith, et al.	—	—	
SVC	AI	4,866,841	9/89	Hubbard	—	—	
SVC	AJ	4,890,157	12/89	Wilson	—	—	
SVC	AK	4,893,172	1/90	Matsumoto, et al.	—	—	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
SC	AL	2,586,885	8/86	France	—	—		
SC	AM	8910005	10/19/89	PCT	—	—		
SC	AN	91112706	8/22/91	PCT	—	—		
SC	AO	1-293,528		Japan	—	—		
SC	AP	60-217,641		Japan	—	—		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SVC AR IBM Technical Disclosure Bulletin entitled "Design For Minimum Chip Joint Street", December 1989, Vol. 32, No. 7.

SVC AS IBM Technical Disclosure Bulletin entitled "Improved C4 Reliability Using Low Modulus Dielectric Layer, November 1989, Vol. 32, No. 6A.

AT

EXAMINER *S. Clarke* DATE CONSIDERED *4/88*

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*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SL	AA	4,954,878	9/90	Fox, et al.	—	—	
SL	AB	4,975,765	12/90	Ackermann, et al.	—	—	
SL	AC	4,993,954	2/91	Provost	—	—	
SL	AD	5,006,673	4/91	Freyman, et al.	—	—	
SL	AE	5,023,205	6/91	Reche	—	—	
SL	AF	5,029,325	7/91	Higgins, III., et al.	—	—	
SL	AG	5,055,907	10/91	Jacobs	—	—	
SL	AH	5,086,337	2/92	Noro, et al.	—	—	
SL	AI	5,117,275	5/92	Bregman, et al.	—	—	
SL	AJ	5,192,716	3/93	Jacoby	—	—	
SL	AK	5,217,916	6/93	Anderson, et al.	—	—	

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S. Clark	6/88

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SL	AA	5,346,861	9/94	Khandros, et al.			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

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S. Carroll

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FORM PTO-1449 (Rev. 7-80)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. TESSERA 3.3-018 CONT CONT 2 DIV	Serial No. 08/984,615
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APR 8 7 1999 U.S. PATENT AND TRADEMARK OFFICE	
				Applicant Khandros et al.	
				Filing Date December 3, 1997	Group 3206

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SVL	AA	3,302,067	1/31/67	Jackson et al.	✓	—	
SVL	AB	3,390,308	6/25/68	Marley	—	—	
SVL	AC	3,426,252	2/4/69	Lepselter	✓	—	
SVL	AD	3,474,297	10/21/69	Bylander	✓	—	
SVL	AE	3,487,541	1/6/70	Boswell	✓	—	
SVL	AF	3,611,061	7/7/71	Segerman	✓	—	
SVL	AG	3,614,832	10/26/71	Chance et al.	✓	—	
SVL	AH	3,680,037	7/25/72	Nellis et al.	✓	—	
SVL	AI	3,680,206	8/1/72	Roberts	✓	—	
SVL	AJ	3,683,105	8/8/72	Shamash et al.	✓	—	
SVL	AK	3,689,991	9/12/72	Aird	✓	—	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
SVL	AL	2405839	12/1981	France	✓	—	x
SVL	AM	245179	2/14/95	Europat	✓	—	—
SVL	AN	WO 89/12911	12/28/89	W.I.P.O.	✓	—	—
SVL	AO	1-155633	6/1989	Japan	✓	—	x
SVL	AP	1003396	3/1983	USSR	✓	—	x

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SVL	AR	Nitto Product Information. "New Tab Mounting Method".					
		IBM Technical Disclosure Bulletin. Jan. 1985, vol. 27, No. 9, p. 4855.					
SVL	AS	IBM Technical Disclosure Bulletin. "Non-Permanent Mounting Technique for Test and Burn-In of C4 Devices". Nov. 1990, vol. 33, No. 7.					
		IBM Technical Disclosure Bulletin. "Extended Pad for Testing Package Parts". Dec. 1984, vol. 27, No. 7B, pp. 4210-4211.					
SVL	AT	IBM Technical Disclosure Bulletin. "Test and Repair of Direct Chip Attach Modules". Aug. 1988, vol. 31, No. 3					
		Microelectronics Packaging Handbook, 1989, pp. 420-423, 1132. Rao R. Tummala and Eugene J. Rymaszewski.					

EXAMINER	DATE CONSIDERED
S. Clark	6/20/88

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FORM PTO-1449 (Rev. 7-80)				U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. TESSERA 3.3-018 CONT CONT 2 DIV	Serial No. 08/984,615
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APR 07 1998 U.S. PATENT DOCUMENTS		Applicant Khandros et al.	
						Filing Date December 3, 1997	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SVL	AA	3,724,068	4/3/73	Galli	—	—	
SVL	AB	3,772,575	11/3/73	Hegarty et al.	—	—	
SVL	AC	3,795,037	3/5/74	Luttmer	—	—	
SVL	AD	3,832,769	9/3/74	Olyphant Jr. et al.	—	—	
SVL	AE	3,862,790	1/28/75	Davies et al.	—	—	
SVL	AF	3,864,728	2/4/75	Peltz et al.	—	—	
SVL	AG	3,868,724	2/25/75	Perrino	—	—	
SVL	AH	4,179,802	12/25/79	Joshi et al.	—	—	
SVL	AI	4,237,607	12/9/80	Ohno	—	—	
SVL	AJ	4,356,374	10/26/82	Noyori et al.	—	—	
SVL	AK	4,410,905	10/18/83	Grabbe	—	—	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
SVL	AL	072673	8/1982	Europat	—	—	
SVL	AM	080041	9/1982	Europat	—	—	
SVL	AN	413451	7/1990	Europat	—	—	
SVL	AO	2495839	12/1981	France	—	—	
SVL	AP	2586885	8/1996	France	—	—	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
SVL	AR		IBM Technical Disclosure Bulletin entitled "Non-Permanent Mounting Technique for Test and Burn-In of C4 Devices", Nov. 1990, vol. 33, No. 7.				
			IBM Technical Disclosure Bulletin entitled "Extended Pad For Testing Package Parts", Dec. 1984, vol. 27, No. 7B.				
SVL	AS		IBM Technical Disclosure Bulletin entitled "Test And Repair of Direct Chip Attach Modules", Aug. 1988, vol. 31, No. 3.				
			"Improved C4 Reliability Using Low Modulus Dielectric Layer", IBM Technical Disclosure bulletin, vol. 32, No. 6A, Nov. 1989.				
SVL	AT		"Methods of Testing Chips and Joining Chips to Substrates," 2244 Research Disclosure, February 1991, Elmsworth, GB, 32290				
EXAMINER S. Clark			DATE CONSIDERED 6-26-98				
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Apr 07 1998
U.S. Patent and Trademark OfficeFiling Date
December 3, 1997Group
3206

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SVL	AA	4,437,141	3/13/84	Prokop	—	—	
SVL	AB	4,545,610	10/8/95	Lakritz et al.	—	—	
SVL	AC	4,574,470	3/11/86	Burt	—	—	
SVL	AD	4,597,617	7/1/86	Enochs	—	—	
SVL	AE	4,604,644	8/5/86	Beckham et al.	—	—	
SVL	AF	4,627,151	12/9/86	Mulholland et al.	7	✓	
SVL	AG	4,628,406	12/9/86	Smith et al.	—	—	
SVL	AH	4,649,415	3/10/87	Hebert	—	—	
SVL	AI	4,667,220	5/19/87	Lee et al.	—	—	
SVL	AJ	4,670,770	6/2/87	Tai	—	—	
SVL	AK	4,685,998	8/11/87	Quinn, Daniel J. et al.	—	—	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES	NO	
SVL	AL	60-217641	10/1985	Japan	—	—	
SVL	AM	1-293528	11/1989	Japan	—	—	
SVL	AN	8910005	10/1989	WIPO	—	—	
AC	AO	9112706	8/1991	WIPO	—	—	
	AP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER

G. Clark

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*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SVL	AA	4,709,468	12/1/87	Wilson	—	—	
SVL	AB	4,710,798	12/1/87	Marcantonio	—	—	
SVL	AC	4,721,993	1/26/88	Walter	—	—	
SVS	AD	4,751,199	6/14/88	Phy	—	—	
SVV	AE	4,751,482	6/14/88	Fukuta et al.	—	—	
SVL	AF	4,764,804	8/16/88	Sahara et al.	—	—	
SVL	AG	4,793,814	12/27/88	Zifcak et al.	—	—	
SVL	AH	4,796,078	1/3/89	Phelps, Jr. et al.	—	—	
SVL	AI	4,811,082	3/7/89	Jacobs et al.	—	—	
SVL	AJ	4,814,295	3/21/89	Mehta	—	—	
SVL	AK	4,818,728	4/4/89	Rai et al.	—	—	

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SVC	AA	4,842,662	6/27/89	Jacobi	—	—	
SVC	AB	4,855,867	8/8/89	Gazdik et al.	—	—	
SVC	AC	4,874,721	10/17/89	Kimura et al.	—	—	
SVC	AD	4,878,098	10/31/89	Saito et al.	—	—	
SVC	AE	4,884,122	11/28/89	Eichelberger et al.	—	—	
SVC	AF	4,887,148	12/12/89	Mu	—	—	
SVC	AG	4,918,811	4/24/90	Eichelberger et al.	—	—	
SVC	AH	4,924,353	5/3/90	Patraw	—	—	
SVC	AI	4,926,241	5/15/90	Carey	—	—	
SVC	AJ	4,937,203	6/26/90	Eichelberger et al.	—	—	
SVC	AK	4,937,707	6/29/90	McBride et al.	—	—	

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SVC	AA	4,941,033	7/10/90	Kishida	—	—	
SVC	AB	4,942,140	7/17/90	Ootsuki et al.	—	—	
SVC	AC	4,967,261	10/30/90	Niki et al.	—	—	
SVC	AD	4,989,069	1/29/91	Hawkins	—	—	
SVC	AE	5,019,673	5/28/91	Juskey et al.	—	—	
SVC	AF	5,027,191	6/25/91	Bourdelaise et al.	—	—	
SVC	AG	5,045,921	9/3/91	Lin et al.	—	—	
SVC	AH	5,045,922	9/3/91	Kodama et al.	—	—	
SVC	AI	5,053,922	10/1/91	Matta et al.	—	—	
SVC	AJ	5,123,850	6/23/92	Elder et al.	—	—	
SVC	AK	5,136,366	8/4/92	Worp et al.	—	—	

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SVL	AA	5,148,265	9/15/92	Khandros et al.	—	—	
SVL	AB	5,148,266	9/15/92	Khandros et al.	—	—	
SVL	AC	5,222,014	6/22/93	Lin	—	—	
SVL	AD	5,289,346	2/22/94	Carey et al.	—	—	
SVL	AE	5,347,159	9/13/94	Khandros et al.	—	—	
SVL	AF	5,350,947	9/27/94	Takekawa et al.	—	—	
SVL	AG	5,379,191	1/3/95	Carey et al.	—	—	
SVU	AH	5,414,298	5/9/95	Grube et al.	—	—	
SVU	AI	5,282,312	2/1/94	DiStefano et al.	—	—	
SVU	AJ	5,518,964	5/21/96	DiStefano et al.	—	—	
SVU	AK	4,783,719	11/8/88	Jamison et al.	—	—	

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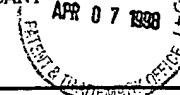
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SVL	AA	3,952,404	4/27/76	Matunami	—	—	
SVL	AB	5,637,919	6/10/97	Grabbe	—	—	
JVL	AC	5,504,035	4/2/96	Rostoker et al.	—	—	
SVL	AD	5,477,082	12/19/95	Buckley, III et al.	—	—	
SVL	AE	5,454,160	10/3/95	Nickel	—	—	
SVL	AF	5,394,009	2/28/95	Loo	—	—	
SVL	AG	5,227,583	7/13/93	Jones	—	—	
SVL	AH	3,823,467	7/94 74	Shamash et al.	—	—	
SVL	AI	4,189,825	2/80	Robillard et al.	—	—	
SVL	AJ	4,349,862	9/82	Bajorek et al.	—	—	
SVL	AK	4,655,524	4/87	Etzel	—	—	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SVC	AA	4,658,332	4/87	Baker et al.	—	—	
JVL	AB	4,681,654	7/87	Clementi et al.	—	—	
JVL	AC	4,695,870	9/87	Patraw	—	—	
JVL	AD	4,700,473	10/87	Freyman et al.	—	—	
JVL	AE	4,772,936	9/88	Reding et al.	—	—	
JVL	AF	4,847,146	7/89	Yeh et al.	—	—	
JVL	AG	4,855,872	8/89	Wojnar et al.	—	—	
JVL	AH	4,860,088	8/89	Smith et al.	—	—	
JVL	AI	4,866,841	9/89	Hubbard	—	—	
JVL	AJ	4,893,172	1/90	Matsumoto et al.	—	—	
JVL	AK	4,954,878	9/90	Fox et al.	—	—	

FOREIGN PATENT DOCUMENTS

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LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				O P APR 07 1998 EXAMINER: S. Clarke TESSERA		Applicant Khandros et al.	
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*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SVL	AA	4,975,765	12/90	Ackermann et al.	—	—	
SVL	AB	4,993,954	2/91	Prevost	—	—	
SVL	AC	5,006,673	4/91	Freyman et al.	—	—	
SVL	AD	5,029,325	7/91	Higgins, III et al.	—	—	
SVL	AE	5,086,337	2/92	Noro et al.	—	—	
SVL	AF	5,117,275	5/92	Bregman	—	—	
SVL	AG	Re. 35,119	12/12/95	Blonder et al.	—	—	
SVL	AH	4,937,653	6/26/90	Blonder et al.	—	—	
SVL	AI	5,210,939	5/18/93	Mallik et al.	—	—	
	AJ						
	AK						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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